

GenCore version 5.1.4.p5.4578
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OM protein - protein search, using sw model

Run on: March 14, 2003, 09:27:15 ; Search time 14.4509 Seconds
(Without alignments)
2124.243 Million cell updates/sec

Title: US-09-836-077-3
Perfect score: 3615
Sequence: 1 MPEPPGRAPSAAPRAHVPG.....LAASLWGLVLTLLGLLVH 666

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Archived: 199416 seqs, 46092074 residues

Total number of hits satisfying chosen parameters: 199416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/2/pubpaa/US08_NEM_PUB pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCr_NEW_PUB pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEM_PUB pep:*
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13: /cgn2_6/ptodata/2/pubpaa/US60_NEM_PUB pep:*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3615	100.0	666	10 US-09-836-077-3	Sequence 3, Appli
2	3615	100.0	666	10 US-09-764-587A-2	Sequence 2, Appli
3	3443	95.2	634	9 US-09-771-467C-2	Sequence 4, Appli
4	1897	52.5	394	10 US-09-836-077-4	Sequence 4, Appli
5	1345.5	37.2	606	9 US-09-771-467C-4	Sequence 4, Appli
6	1029	28.5	215	10 US-09-764-587A-4	Sequence 4, Appli
7	680.5	18.8	893	9 US-09-908-193-45	Sequence 45, Appl
8	674.5	18.7	837	9 US-10-174-590-454	Sequence 45, App
9	674.5	18.7	837	9 US-10-176-758-454	Sequence 45, App
10	674.5	18.7	837	9 US-10-175-737-454	Sequence 45, App
11	674.5	18.7	837	9 US-10-173-706-454	Sequence 45, App
12	674.5	18.7	837	9 US-10-175-738-454	Sequence 45, App
13	674.5	18.7	837	9 US-10-175-752-454	Sequence 45, App
14	674.5	18.7	837	9 US-10-176-482-454	Sequence 45, App
15	674.5	18.7	837	9 US-10-176-757-454	Sequence 45, App
16	674.5	18.7	837	9 US-10-176-913-454	Sequence 45, App
17	674.5	18.7	837	9 US-10-180-552-454	Sequence 45, App
18	674.5	18.7	837	9 US-10-180-557-454	Sequence 45, App
19	674.5	18.7	837	9 US-10-173-700-454	Sequence 45, App

20	674.5	18.7	837	9	US-10-174-572-454	Sequence 45, App
21	674.5	18.7	837	9	US-10-174-579-454	Sequence 45, App
22	674.5	18.7	837	9	US-10-174-582-454	Sequence 45, App
23	674.5	18.7	837	9	US-10-174-588-454	Sequence 45, App
24	674.5	18.7	837	9	US-10-175-739-454	Sequence 45, App
25	674.5	18.7	837	9	US-10-175-740-454	Sequence 45, App
26	674.5	18.7	837	9	US-10-175-743-454	Sequence 45, App
27	674.5	18.7	837	9	US-10-176-488-454	Sequence 45, App
28	674.5	18.7	837	9	US-10-176-492-454	Sequence 45, App
29	674.5	18.7	837	9	US-10-176-747-454	Sequence 45, App
30	674.5	18.7	837	9	US-10-176-750-454	Sequence 45, App
31	674.5	18.7	837	9	US-10-176-985-454	Sequence 45, App
32	674.5	18.7	837	9	US-10-176-987-454	Sequence 45, App
33	674.5	18.7	837	9	US-10-176-991-454	Sequence 45, App
34	674.5	18.7	837	9	US-10-176-992-454	Sequence 45, App
35	674.5	18.7	837	9	US-10-176-993-454	Sequence 45, App
36	674.5	18.7	837	9	US-10-184-658-454	Sequence 45, App
37	674.5	18.7	837	9	US-10-173-695-454	Sequence 45, App
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40	674.5	18.7	837	9	US-10-174-576-454	Sequence 45, App
41	674.5	18.7	837	9	US-10-174-585-454	Sequence 45, App
42	674.5	18.7	837	9	US-10-174-586-454	Sequence 45, App
43	674.5	18.7	837	9	US-10-175-747-454	Sequence 45, App
44	674.5	18.7	837	9	US-10-176-481-454	Sequence 45, App
45	674.5	18.7	837	9	US-10-176-485-454	Sequence 45, App

ALIGNMENTS

RESULT 1
US-09-836-077-3
Sequence 3, Application US/09836077
Patent No. US20020037851A1
GENERAL INFORMATION:
APPLICANT: FLECKENSTEIN, Bernhard
ENSSER, Armin
TITLE OF INVENTION: HUMAN SEMAPHORIN L (H-SEMA) AND
CORRESPONDING SEMAPHORINS IN OTHER SPECIES
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESS:
ADDRESSEE: Frommer Lawrence & Haug LLP
STREET: 745 Fifth Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10151
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/836,077
FILING DATE: 16-Apr-2001
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lawrence, William F.
REGISTRATION NUMBER: 28,029
REFERENCE/DOCKET NUMBER: 514429-3647
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-588-0800
TELEFAX: 212-588-0500
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 666 amino acids
TYPE: amino acid
STRANDEDNESS: n/a
TOPOLOGY: linear
MOLECULE TYPE: amino acid
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-836-077-3

Query Match 100.0%; Score 3615; DB 10; Length 666;
Best Local Similarity 100.0%; Pred. No. 5.2e-292;
Matches 666; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPPPGGAASAPRARPPGPARGLRLRLLLMAAASAGHLRSGPRIFAVWK 60
1 MTPPPGGAASAPRARPPGPARGLRLRLLLMAAASAGHLRSGPRIFAVWK 60
DB 1 MTPPPGGAASAPRARPPGPARGLRLRLLLMAAASAGHLRSGPRIFAVWK 60
QY 61 HVGDQVDFGQTEPHTVLFHEPGSSVWVGGRKYLLDFPEGKNASVRYVNIIGSTKSC 120
61 HVGDQVDFGQTEPHTVLFHEPGSSVWVGGRKYLLDFPEGKNASVRYVNIIGSTKSC 120
DB 61 HVGDQVDFGQTEPHTVLFHEPGSSVWVGGRKYLLDFPEGKNASVRYVNIIGSTKSC 120
QY 121 LDKRDCENYITLLERSSGLLACGTNAHPSQWNLVNGTVPLGMRGYAPSPDENSLV 180
121 LDKRDCENYITLLERSSGLLACGTNAHPSQWNLVNGTVPLGMRGYAPSPDENSLV 180
DB 121 LDKRDCENYITLLERSSGLLACGTNAHPSQWNLVNGTVPLGMRGYAPSPDENSLV 180
QY 181 LFEDEYVSTIRKOEYNGKIPFRIRIGESSELYTSDTVMNPQFIKATIVHODQAYDKI 240
181 LFEDEYVSTIRKOEYNGKIPFRIRIGESSELYTSDTVMNPQFIKATIVHODQAYDKI 240
DB 181 LFEDEYVSTIRKOEYNGKIPFRIRIGESSELYTSDTVMNPQFIKATIVHODQAYDKI 240
QY 241 YFFREDNPDKNPEAPLVNSVAQLCRDQGESLSYSKNTFLKAMLVCSDAATNKNF 300
241 YFFREDNPDKNPEAPLVNSVAQLCRDQGESLSYSKNTFLKAMLVCSDAATNKNF 300
DB 241 YFFREDNPDKNPEAPLVNSVAQLCRDQGESLSYSKNTFLKAMLVCSDAATNKNF 300
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301 NRDQVFLPDPGQMDRTRYGVFSNPMNYSACVYSLGDIKVFRTSLKGYHSSLPN 360
DB 301 NRDQVFLPDPGQMDRTRYGVFSNPMNYSACVYSLGDIKVFRTSLKGYHSSLPN 360
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361 PRPGCLPDDOPIPTETFOVADRHEVAORVEPMGPKLTPLFHSKYHYOKAVHMQASH 420
DB 361 PRPGCLPDDOPIPTETFOVADRHEVAORVEPMGPKLTPLFHSKYHYOKAVHMQASH 420
QY 421 GETFHVLYLTDRGTIRKVEPGEDEHSFAFNIEMIOFFRAAAIQTMSLDAERKLYVS 480
421 GETFHVLYLTDRGTIRKVEPGEDEHSFAFNIEMIOFFRAAAIQTMSLDAERKLYVS 480
DB 421 GETFHVLYLTDRGTIRKVEPGEDEHSFAFNIEMIOFFRAAAIQTMSLDAERKLYVS 480
QY 481 SOMEVSQVPLDLCEYVGGGCHGCLMSRDPYCGMDGRCISTYSSERSVLOSINPAEPKE 540
481 SOMEVSQVPLDLCEYVGGGCHGCLMSRDPYCGMDGRCISTYSSERSVLOSINPAEPKE 540
DB 481 SOMEVSQVPLDLCEYVGGGCHGCLMSRDPYCGMDGRCISTYSSERSVLOSINPAEPKE 540
QY 541 CPNPKPKAPLQKYSLAPNSRYLSCPMESRHATYSWRHKNVDSQCPGHQSPNCILFI 600
541 CPNPKPKAPLQKYSLAPNSRYLSCPMESRHATYSWRHKNVDSQCPGHQSPNCILFI 600
DB 541 CPNPKPKAPLQKYSLAPNSRYLSCPMESRHATYSWRHKNVDSQCPGHQSPNCILFI 600
QY 601 ENLTAQOYGHYFCEAOGESYFREAOHWQLLPEDGIMAEHLGHACALAAASLMLGLVPLTL 660
601 ENLTAQOYGHYFCEAOGESYFREAOHWQLLPEDGIMAEHLGHACALAAASLMLGLVPLTL 660
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QY 661 LGLLVH 666
661 LGLLVH 666
DB 661 LGLLVH 666

RESULT 2
US-09-764-587A-2
; Sequence 2, Application US/09764587A
; Patent No. US20020106722A1
; GENERAL INFORMATION:
; APPLICANT: David Michalovich
; APPLICANT: Philip David Hayes
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30039-D1
; CURRENT APPLICATION NUMBER: US/09/764,587A
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: US 09/240,410
; PRIOR FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: EP 98300694.1
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 666

TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-764-587A-2

Query Match 100.0%; Score 3615; DB 10; Length 666;
Best Local Similarity 100.0%; Pred. No. 5.2e-292;
Matches 666; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPPPGGAASAPRARPPGPARGLRLRLLLMAAASAGHLRSGPRIFAVWK 60
1 MTPPPGGAASAPRARPPGPARGLRLRLLLMAAASAGHLRSGPRIFAVWK 60
DB 1 MTPPPGGAASAPRARPPGPARGLRLRLLLMAAASAGHLRSGPRIFAVWK 60
QY 61 HVGDQVDFGQTEPHTVLFHEPGSSVWVGGRKYLLDFPEGKNASVRYVNIIGSTKSC 120
61 HVGDQVDFGQTEPHTVLFHEPGSSVWVGGRKYLLDFPEGKNASVRYVNIIGSTKSC 120
DB 61 HVGDQVDFGQTEPHTVLFHEPGSSVWVGGRKYLLDFPEGKNASVRYVNIIGSTKSC 120
QY 121 LDKRDCENYITLLERSSGLLACGTNAHPSQWNLVNGTVPLGMRGYAPSPDENSLV 180
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DB 121 LDKRDCENYITLLERSSGLLACGTNAHPSQWNLVNGTVPLGMRGYAPSPDENSLV 180
QY 181 LFEDEYVSTIRKOEYNGKIPFRIRIGESSELYTSDTVMNPQFIKATIVHODQAYDKI 240
181 LFEDEYVSTIRKOEYNGKIPFRIRIGESSELYTSDTVMNPQFIKATIVHODQAYDKI 240
DB 181 LFEDEYVSTIRKOEYNGKIPFRIRIGESSELYTSDTVMNPQFIKATIVHODQAYDKI 240
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DB 241 YFFREDNPDKNPEAPLVNSVAQLCRDQGESLSYSKNTFLKAMLVCSDAATNKNF 300
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DB 301 NRDQVFLPDPGQMDRTRYGVFSNPMNYSACVYSLGDIKVFRTSLKGYHSSLPN 360
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DB 361 PRPGCLPDDOPIPTETFOVADRHEVAORVEPMGPKLTPLFHSKYHYOKAVHMQASH 420
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DB 421 GETFHVLYLTDRGTIRKVEPGEDEHSFAFNIEMIOFFRAAAIQTMSLDAERKLYVS 480
QY 481 SOMEVSQVPLDLCEYVGGGCHGCLMSRDPYCGMDGRCISTYSSERSVLOSINPAEPKE 540
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DB 481 SOMEVSQVPLDLCEYVGGGCHGCLMSRDPYCGMDGRCISTYSSERSVLOSINPAEPKE 540
QY 541 CPNPKPKAPLQKYSLAPNSRYLSCPMESRHATYSWRHKNVDSQCPGHQSPNCILFI 600
541 CPNPKPKAPLQKYSLAPNSRYLSCPMESRHATYSWRHKNVDSQCPGHQSPNCILFI 600
DB 541 CPNPKPKAPLQKYSLAPNSRYLSCPMESRHATYSWRHKNVDSQCPGHQSPNCILFI 600
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601 ENLTAQOYGHYFCEAOGESYFREAOHWQLLPEDGIMAEHLGHACALAAASLMLGLVPLTL 660
DB 601 ENLTAQOYGHYFCEAOGESYFREAOHWQLLPEDGIMAEHLGHACALAAASLMLGLVPLTL 660
QY 661 LGLLVH 666
661 LGLLVH 666
DB 661 LGLLVH 666

RESULT 3
US-09-771-467C-2
; Sequence 2, Application US/09771467C
; Patent No. US20020177549A1
; GENERAL INFORMATION:
; APPLICANT: Luo, Yuling
; APPLICANT: Xiomel, Xu
; TITLE OF INVENTION: Semaphorin K1 Polypeptides
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
; STREET: 75 DENISE DRIVE
; CITY: HILLSBOROUGH
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94010

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/771,467C
FILING DATE: 26-Jan-2001
CLASSIFICATION: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: OSMAN, RICHARD A
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: EXEL98-001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 343-4341
TELEFAX: (650) 343-4342
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 634 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-771-467C-2

Query Match 95.2%; Score 3443; DB 9; Length 634;
Best Local Similarity 100.0%; Pred. No. 9,4e-278;
Matches 634; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

33 LLLLLMAAASAOGLRSPRIFAAMKGVHGDVDFGQTEPHVLFPHBSSSSVWVGR 92
1 LLLLLMAAASAOGLRSPRIFAAMKGVHGDVDFGQTEPHVLFPHBSSSSVWVGR 60
93 GVVYLFDFPEGNASRYTNIGSTKSCLDKRCENYITLLERSGLLACGINAHBPG 152
61 GVVYLFDFPEGNASRYTNIGSTKSCLDKRCENYITLLERSGLLACGINAHBPG 120
153 KNLVNTVPLGEMRGAPSPDENSLVLEGEDEVSTIRKOEYNGKIPRRIRRESEL 212
121 KNLVNTVPLGEMRGAPSPDENSLVLEGEDEVSTIRKOEYNGKIPRRIRRESEL 180
213 YTSDFVWQNPQIKATIVHODQAYDDKIYFFREDNPKNPEAPLNVSRVAQLCRDQGG 272
181 YTSDFVWQNPQIKATIVHODQAYDDKIYFFREDNPKNPEAPLNVSRVAQLCRDQGG 240
273 ESSLVSKNNTFLKAMLVCSDAATNKNRLODFLLPDSGQWRTRYGYFSNPNWS 332
241 ESSLVSKNNTFLKAMLVCSDAATNKNRLODFLLPDSGQWRTRYGYFSNPNWS 300
333 ALCVSLGIDIDVFRTSLKGYHSSLPNRPCKCLPDDOPIPTETFOVADRHEVAQRYE 392
301 ALCVSLGIDIDVFRTSLKGYHSSLPNRPCKCLPDDOPIPTETFOVADRHEVAQRYE 360
393 PMGPLKTPLFHSHKYHOKVAVHRMQASHGETFHVLYLTDRGT IHKVPEGEQESHFAEN 452
361 PMGPLKTPLFHSHKYHOKVAVHRMQASHGETFHVLYLTDRGT IHKVPEGEQESHFAEN 420
453 IMEIQFERAALITMTSLAERKILYSSOWEYQVPLDLCVYGGGCHCLMSRPYCG 512
421 IMEIQFERAALITMTSLAERKILYSSOWEYQVPLDLCVYGGGCHCLMSRPYCG 480
513 WDOGRICISYSSERSVLOSINPAEPHKECPNPKPDKAPLOKYSIAPNSRYVLSCPMESRH 572
481 WDOGRICISYSSERSVLOSINPAEPHKECPNPKPDKAPLOKYSIAPNSRYVLSCPMESRH 540
573 ATYSMRHKNVNEOSCEBQSPNCILFIENLTAQOYGYHFCBAQESYFREAQHWOLLE 632
541 ATYSMRHKNVNEOSCEBQSPNCILFIENLTAQOYGYHFCBAQESYFREAQHWOLLE 600
633 DGIAMHLLGHACALASLMLGLVPTLLGLLVH 666
601 DGIAMHLLGHACALASLMLGLVPTLLGLLVH 634

RESULT 4
US-09-836-077-4
Sequence 4, Application US/09836077
Patent No. US20020037851A1
GENERAL INFORMATION:
APPLICANT: FLECKENSTEIN, Bernhard
ENSER, Armin
TITLE OF INVENTION: HUMAN SEMAPHORIN L (H-SEML) AND
CORRESPONDING SEMAPHORINS IN OTHER SPECIES
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESS:
ADDRESSER: Frommer Lawrence & Haug LLP
STREET: 745 Fifth Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10151
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/836,077
FILING DATE: 16-Apr-2001
CLASSIFICATION: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lawrence, William F.
REGISTRATION NUMBER: 28,029
REFERENCE/DOCKET NUMBER: 514429-3647
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-588-0800
TELEFAX: 212-588-0500
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 394 amino acids
TYPE: amino acid
STRANDEDNESS: n/a
TOPOLOGY: linear
MOLECULE TYPE: amino acid
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-836-077-4

Query Match 52.5%; Score 1897; DB 10; Length 394;
Best Local Similarity 90.2%; Pred. No. 1.3e-149;
Matches 358; Conservative 8; Mismatches 27; Indels 4; Gaps 2;

1 MPPPPGAPASAPRARVGGPARLGLPLRLLLMLMAAASAOGLRSPRIFAAMK 60
1 MPPPPGAPASAPRARVGGPARLGLPLRLLLMLMAAASAOGLRSPRIFAAMK 59
61 HNGQDRVDFGQTEPHVLFHEDGSSVWVGKGVYLFDFPEGNASRYTNIGSTKSC 120
60 --GQDVHDFEVSQEPHVTFLHEDGSSVWVGKGVYHFNFPKGNASRYTNIGSTKSC 117
121 LKRCDEYITLLERSSEGLACGTNARHPSCNLYVNGTV -PLGEMRGAPSPDENSL 179
118 LKRCDEYITLLERSSEGLACGTNARHPSCNLYVNGTV -PLGEMRGAPSPDENSL 177
180 VLEGEDEVSTIRKOEYNGKIPRRIRIGSESELYTSDTVWQNPQIKATIVHODQAYDDK 239
178 VLEGEDEVSTIRKOEYNGKIPRRIRIGSESELYTSDTVWQNPQIKATIVHODQAYDDK 237
240 IYFFREDNPKNPEAPLNVSRVAQLCRDQGGESSLSVSKNNTFLKAMLVCSDAATNKN 299
238 IYFFREDNPKNPEAPLNVSRVAQLCRDQGGESSLSVSKNNTFLKAMLVCSDAATNKN 297
300 FNRLODFLLPDSGQWRTRYGYFSNPNWSAVCVSLGIDIDVFRTSLKGYHSSLP 359
298 FNRLODFLLPDSGQWRTRYGYFSNPNWSAVCVSLGIDIDVFRTSLKGYHSSLP 357
360 NRPCKCLPDDOPIPTETFOVADRHEVAQRYEPMKP 396

Db 358 NRPQMCLEPKQPIPTETFOVADSHPEVAQRYEPMGP 394

RESULT 5

US-09-771-467C-4

Sequence 4, Application US/09771467C

Patent No. US20020177549A1

GENERAL INFORMATION:

APPLICANT: Luo, Yuling

Xiomei, Xu

TITLE OF INVENTION: Semaphorin K1 Polypeptides

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

STREET: 75 DENISE DRIVE

CITY: HILLSBOROUGH

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94010

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/771,467C

FILING DATE: 26-Jan-2001

CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: OSMAN, RICHARD A

REGISTRATION NUMBER: 36,627

REFERENCE/DOCKET NUMBER: EXEL98-001

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 343-4341

TELEFAX: (650) 343-4342

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 606 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-771-467C-4

Query Match 37.2% Score 1345.5; DB 9; Length 606;

Best Local Similarity 45.9% Pred. No. 1.6e-103;

Matches 274; Conservative 85; Mismatches 227; Indels 11; Gaps 6;

4 LCVSIRLMLIL-SALTAAKSREPIDKPRILVNLTDGFGQHR-FGPOEPHTVLFHSLNSD 61

87 VVWGGRGKYYLFDEPEGNASVRYTVNIGSTKSCLDKRDCEYITLLERSEGLACGN 146

62 VYVGNNNTIYLFDFAHSSNASTALINITSTHNTLRSLSTCENFITLLNQTGLACGN 121

147 ARHPSQWNLVNGTVVPLGEMRGYAFSPDENSLVLEGEDEVYSTRKQYNGKIPFRRI 206

122 SOKPSCWMLINNLTTOFLGPKLGLAFSPSSGNLVLFQNDQVSTINLYKSLSGSKHFRRI 181

207 RGESELYTSQVYQNPQFIKATIVHQAAYDKITFFREDNPDKNPEAPLVNSVAQLC 266

182 AGOVELYTSQVYQNPQFIKATIVHQAAYDKITFFREDNPDKNPEAPLVNSVAQLC 241

267 RGDGGESESLSKNTFLKALVCSDAATNKNENRLODVFLPDRPSQGMRTRYGVFS 326

242 SSDGGESESLSKNTFLKALVCSDAATNKNENRLODVFLPDRPSQGMRTRYGVFS 301

327 NPWNASVAVYSLGIDVYFRTSLKGYHSSLPNRPGRKCLPDQOPIPTETFOVADRPE 386

302 SPWNSAVCVTFVADIDHVFETSKLKNYHKLPTPRGQCKMKNHGVLETFETFOVADRPE 361

Qy 387 VAORVEPMGLKPLTFHSHKYHYQKVAHMQASHGETF--HVLVLTTRDGTIHKVPEGE 444

Db 362 VADPVYQKNNAPETLQSKYITKILYKVE--YGVFVATIFLTLTIGTLIHIVRYED 419

Qy 445 QEHSAFENIMELQFRRRAAIQTMSLDARERKLYSSQWVSOVPLDLCEVYGGCHGL 504

Db 420 NSSTALNILEINPFOKAPAPIONILLDNTNLKLYNSEWSEVSEVPLDLSVGNDFSCF 479

Qy 505 MSRDPCYCGWDGRCISIYSSERSVLOSINPAEP--HKECPNKPKDKAPLQKVLAPNSRY 562

Db 480 MSRDPLCTYNNTC---SKQKRVSVETGSPANRTLSMCGDHYAPLVVHVQVIFLLSNS 536

Qy 563 YLSCPMESHATYSWRKKEVNEQSCPEGHQSPNCILFIENLTAAOQYHFECAQEGS 619

Db 537 YLSCPAVSNHADYFTKDGFTKRCRHVKTHKNDICILLANSTATNGTHVCMKEDS 593

RESULT 6

US-09-764-587A-4

Sequence 4, Application US/09764587A

Patent No. US20020106722A1

GENERAL INFORMATION:

APPLICANT: David Michalovich

APPLICANT: Philip David Hayes

TITLE OF INVENTION: NOVEL COMPOUNDS

FILE REFERENCE: GP-30039-D1

CURRENT APPLICATION NUMBER: US/09/764,587A

CURRENT FILING DATE: 2001-01-18

PRIOR APPLICATION NUMBER: US 09/240,410

PRIOR FILING DATE: 1999-01-29

PRIOR APPLICATION NUMBER: EP 98300694.1

PRIOR FILING DATE: 1999-01-30

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 4

LENGTH: 215

TYPE: PRT

ORGANISM: HOMO SAPIENS

US-09-764-587A-4

Query Match 28.5% Score 1029; DB 10; Length 215;

Best Local Similarity 91.6% Pred. No. 6.9e-78;

Matches 197; Conservative 2; Mismatches 14; Indels 2; Gaps 2;

Qy 63 GQDRVDFGQTEPHYVLFHPEGSSVWVGGRKYYLFDEPEGNASVRYTVNIGSTKSCLD 122

Db 1 GQDRVDFGQTEPHYVLFHPEGSSVWVGGRKYYLFDEPEGNASVRYTVNIGSTKSCLD 60

Qy 123 KDCENYITLLERRSEGLACGTNARHPSQWNLVNGTVVPLGEMRGYAFSPDEN-SLVL 181

Db 61 KDCENYITLLERRSEGLACGTNARHPSQWNLVNLMLQCHLGESEGYAFSPDENPWF 120

Qy 182 FEGDEVYSTRKQYNGKIPFRRI RGESELYTSQVYQNPQFIKATIVHQAAYDKI 240

Db 121 FEGDEVYSTRKQYNGKIPFRRI RGESELYTSQVYQNPQFIKATIVHQAAYDKI 180

Qy 241 YFFREDNPDKNPEAPLVNSVAQLCRGDGESS 275

Db 181 YFFREDNPDKNPEAPLVNSVAQLCRGDGESS 215

RESULT 7

US-09-908-193-45

Sequence 45, Application US/09908193

Publication No. US20020192748A1

GENERAL INFORMATION:

APPLICANT: RASTELLI, LUCA

APPLICANT: SHIMKETS, RICHARD A.

APPLICANT: ZERHUSEN, BRYAN

APPLICANT: MALYANKAR, URIEL M.

APPLICANT: PADIGARU, MURALIDHARA

TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND POLYPEPTIDES ENCODED THEREBY

FILE REFERENCE: 21402-062

```

: CURRENT APPLICATION NUMBER: US/09/908, 193
: PRIOR FILING DATE: 2001-07-18
: PRIOR APPLICATION NUMBER: 60/220, 273
: PRIOR FILING DATE: 2000-07-24
: PRIOR APPLICATION NUMBER: 60/221, 650
: PRIOR FILING DATE: 2000-07-28
: PRIOR APPLICATION NUMBER: 60/221, 233
: PRIOR FILING DATE: 2000-07-27
: PRIOR APPLICATION NUMBER: 60/220, 912
: PRIOR FILING DATE: 2000-07-26
: PRIOR APPLICATION NUMBER: 60/218, 875
: PRIOR FILING DATE: 2000-07-18
: PRIOR APPLICATION NUMBER: 60/218, 870
: PRIOR FILING DATE: 2000-07-18
: PRIOR APPLICATION NUMBER: 60/218, 901
: PRIOR FILING DATE: 2000-07-18
: NUMBER OF SEQ ID NOS: 74
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO: 45
: LENGTH: 893
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-908-193-45

Query Match      18.8%   Score 680.5   DB 9:   Length 893:
Best Local Similarity 30.1%, Pred. No. 4.8e-48;
Matches 220; Conservative 89; Mismatches 293; Indels 129; Gaps 29

    4 PEPGAAPGAPARVYGPAA-----RLGL-----PLRLRLLL----- 37
    35 PVSVAEPPEPRPRDYNALMLRLRAMGLRSMALPAGLAPRRPRLLLLLLLLLLQPP 94
    38 ---WAAASAGHLNSGPRIFAVMKGHWGODRVDPGOTEPHTVLPEHPSSVWVGGRK 94
    95 PPTMALSPRISLPLSEEPFL-----RFEAEHISNTYALLSRDGRLLYVGARPA 145
    95 YV-----LEDFPEGNASRYTNIGSTKSCLDK-----RDCENYI-TLLERSEGLAC 143
    146 LPAISSLNLSFLDGLGEGQLLWGADEKKQCSFKGKDPORDCONYIKILLPLSGSHLFTG 205
    144 GYNARHPSCW--NLVYGV-----VPLGEMRGVAPFSFDENSLVLFEGDEVYSTIRKQ 194
    206 GTAASPCKTYYINMENFTLARDEKGNVLLLEDGKRCPEFPNKRKTALVYVDGLY-IGYVS 264
    195 EYNGKIPREPRIRGESELYTSDTV--MGNPQFIKATIVHOD---QAYDKITYFFREDN 248
    265 SFGQNDPAISRSQSILRPTKTESLWMLQDPAFVASAYIDESIGSLQGDGDKIYFFSEFG 324
    249 PKNNEAPLNVSRYVALCLCGDGGESLSVSKNPTFLKMLYCSDAATKKNRRLQDVL 308
    325 QEEFFENTIVSRIARICGDGDEGRVLD-QRTSTLKAQLLCSRPDDGFPFNVLQDVEPT 383
    309 LEDPQGMEDTVYVYGFSKPMNV-----SAYCVSYSGLDIDKYF-----RTSLKCY 354
    384 LSPSPQMDRDLTFYGVFTTQMHRTGEGSAVYCFYMKDQVRFSGLYKEVNRETQWTV 443
    355 HSLSPRPGKLPD--QQPIETETFOVAD-----HPEYAGVVERPMKPLTEPL 401
    444 TTRVLPTRPGACITNSABRRKINSLSQLPDRVNLFLKDFHLDGQYRSMLLLQF----- 498
    402 FHSKHYQKVAVHRKQASGETTFHYLYLTDDGTHIKVVEPGEQHSFAPNIMEIOPERR 461
    499 ---QARYQVAHVHRYGLH-HTYDVLFCTGGRILKAKVSVGRVHI-----IEELQIFSS 550
    462 AAATQMSLDABRRKLYVSSQWEVSQVPLDLEUYVGGGNGCISMDRPPYCGMNGGC--I 519
    551 GQPVQALLDTHRGELLYASHSGVAVPMANCSLY-RSGCDCLLADPYCAWGSSCKAV 609
    520 SIYSSR---RSYLQINPAPRHKEC-----PNPKP-KAPLQKYSLAPNSRYLSCEM 568
    610 SILYQPLARPRMQLDEGASANDLCGASSVSVSYFVPRBEKRCPEVQVOPQPNVTNLACL 669
    569 ESRHATYSMRHK---ENVDSQCEPHQSFNCILFIENTLAQOYGHYC-EAOGSYFREA 624

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Db      670  LSNLATRLMLRNGAVNMSASC-----HVLPTGDL--VGTQQLGFGQMSLEEGTQQLVA 724
QY      625  QHMQLLPEDGI 635
      : : : : :
Db      725  SYCPEVEDGV 735

RESULT 8
US-10-174-590-454
: Sequence 454, Application US/10174590
: Publication No. US20030008352A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Chen, Jian
: APPLICANT: Desnoyers, Luc
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Pan, James
: APPLICANT: Smith, Victoria
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P3430R1C42
: CURRENT APPLICATION NUMBER: US/10/174.590
: CURRENT FILING DATE: 2002-06-18
: Prior application removed - See file wrapper or Palm
: NUMBER OF SEQ ID NOS: 612
: SEQ ID NO 454
: LENGTH: 837
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-174-590-454

Query Match      18.7%; Score 674.5; DB 9; Length 837;
Best Local Similarity 30.5%; Pred. No. 1.4e-47;
Matches 214; Conservative 90; Mismatches 285; Indels 113; Gaps 28;

QY      12  SAPRRARVGPARRLGLPLRLRLLL-----WAAASAGHLRSGRITRAVWKGHVG 63
Db      13  AAPWGAALPRP-----PLLLLLLLLLQPPPTALSPRISLPLGSEERPL----- 60
QY      64  QDRVFGCOTEPHTVLFHEFGSSVWVGGRKGY-----LFDEPEGNASVFTVNIGSTKG 118
Db      61  --RFAEHIISNTALLISRDRGTLVYGAREALFALSSNLSFLPGGEYOELLMGADAEKKO 118
QY      119  SCLDK-----RDCENYI--TLLEERSEGLACGTNARHPSCW--NLVNGTV-----VPL 163
Db      119  QCSFGKCPQRCQNYIKILLPLSGSHLFTCGTAFSRMCVYINNENFTLARDKGNVLL 178
QY      164  GEMRGYAPSPDENSLVLFEGDEVSTIRKQGYNGKIRFRAIRGESELYTSDTV--MKN 221
Db      179  EDGKRCPFPDPFKSTALVVDGLI--TGTVSSFGQNDPAISRSQSILPRTKSTSLNMLOD 237
QY      222  POFIKATVYHON-----QAVDDKIYFFREDNDKNDPEADLVNSRYAQLCRGOGGSSUS 277
Db      238  PAFVASAIIPEISLGLQGGDDDKITFFFSFTGOEFFEFTIYSRIARICKGDEGGERVLO 297
QY      278  VSKNMTFLKAMLCVSDAATNKNFNRLQDVFLLPDSGQMRDTRVYGVFSNPNNY-----S 332
Db      298  -QRWHSFLKAOGLCGRPDDGPFVNLQDVFLLSPSQMDRLTLFGVFLSQMHRGTBGS 356
QY      333  AVGVYSLGDDIKVF-----KRSSLKGYHSSLDPNPPGKCLPD--QOPLPTETFOVA 381
Db      357  AVCVETMKDVOGVFSGLKEVNRFTQWTVNHPRTVPGACITNSAREKIRNSLSLD 416
QY      382  DR-----HREYVQRYVERPMGRKLPTLHSHKYHOKVAVNHRQASHGEPHLYLT 430
Db      417  DRVLNFKDHLFMDGQVNSRMILLDP-----QARTQRYAVNHRPGILH--HTYDVLFG 467

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OY 431 TDRGTHKVVBERGEDESHAFNIMEIOPRRAAALIOITSLDERRKLYVSQWESQVPL 490
Db 468 TDDGRHKLKAVSGPRHNI-----IEEQITSSCOPOVNLDDTHRGLLYASHSGVQVPM 523
OY 491 DLCEVYGAGCHGCLMSRDPYCGMDQGR- -ISISSE--RSYLOSINPAEPHREC----- 541
Db 524 ANCSILY-RSCGQCLARDPYCAMSOGSSCKHVSILYQOQLATFRWIDIOEASAKDICSASS 582
OY 542 ---PNKP- DKAPLOKVS LAPNSRYLLSCPMESRHATYSWRHK-- -ENVEQSCPEHQSP 594
Db 583 VYSPSTVPYGEKPECEVOQOPNTVNTVLACPLLSNLATRLNKGAVPNVNASAC-- -HVLPL 639
OY 595 NCILFIENLTAAQYGHYFC- EAOESGFREAOHWOLPEPDI 635
Db 640 TGDLL- -VGTOQLBEFCQCSLEBGFQOLVASTCEPEVEDGV 679

RESULT 9
US-10-176-758-454
: Sequence 454, Application US/10176758
: Publication No. US20030008353A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Chen, Jian
: APPLICANT: Desnoyers, Luc
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Pan, James
: APPLICANT: Smith, Victoria
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P3430R1C104
: CURRENT APPLICATION NUMBER: US/10/176,758
: CURRENT FILING DATE: 2002-06-21
: Prior Application removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 612
: SEQ ID NO 454
: LENGTH: 837
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-176-758-454

Query Match 18.7%; Score 674.5; DB 9; Length 837;
Best Local Similarity 30.5%; Pred No. 1.4e-47;
Matches 214; Conservative 90; Mismatches 265; Indels 113; Gaps 28;

OY 12 SAPRAVRVGPAPRAGLPLRLRLILL-----MAAASAOGHLSGPRIPAVWKGHVG 63
Db 13 AAPWGLALPPR-----PLLLLLLLLLLQPPPTWALSPLRISLPGSEERPL----- 60
OY 64 ODRVDFGQTEHTTVLFHEPBGSSVWVGGRKY-----LFDPPEGNASVRYVNIQSTKG 118
Db 61 --RFAEHSINTALLSRDGRITLVGAREALFALSSNLSFLPGEYOELLGADAEEKQ 118
OY 119 SCLDK-----RCDENYI-TLIERRSEGLLAGCTNLRHPSCW--NLVNGTV-----VPL 163
Db 119 QCSFEGKQPRQDCQVYIKILLPLSGSLHFTCGTAAPSPACTIYINNENTFLARDEKGNWLL 178
OY 164 GEMRCYAPFSPDENSLVLFEGDEVSTIRKQYGNKIPFRFRIRRESESLYSDTV--MON 221
Db 179 EDGKRRCFPDFPRFKSTALVDEGL-TGVYSSFGQNDPAISQSGLRPTKFTSSLNWLD 237
OY 222 POFIKATIVHOD---QAYDDKIYFFEREDNFDKNPEAPLVNSRYAQLCRGDQGESLS 277
Db 238 PAFVASAIVPESLGSLOQDDDKIYFFESFETGGEFFEFENTIVSRIARLCKDGEGERVLO 297
OY 278 VSKWNTTELKAMLYGSDATNKNFNRLQDQVLLPDPSCQWRDTRVYGVSPNPNY-----S 332
Db 298 -QRWTSFSLKAOLLCRDPDGFPPFNVLQDQVFTLSPSPQDMRDLLTFYGVTFSLQWNRITGGS 356

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OY      333 AOCVYSLGDIDVE-----RTSSLGHYHSLSPPRQSLRP--OOPIPTENFOYA 381
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      357 AACVFETKDVQRVFSGLLYEVRNRETQWTVTHNPVTTPRGACITNSAREKRINSLOLR 416
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
OY      382 DR-----HPEVAORVERPMGPLTKTPTLFHSKYOKAVUNHRMQASHGETFHYLYLT 430
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      417 DRYLVNLTKDHFLMDQGVRSMILLDP-----GARQRAVNHRPGLH-HTYDVLFLG 467
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
OY      431 TDRGTTHKAYGEDEBDSFAFINIMEIQPRRAAIOIOTMSLDERRKLYSSOMEVSQVLE 490
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      468 TGDBGRLHKVASVGPRHI---IEELQIFSSQPVOYNLLDTHRGILLYAASHSQVVQYDM 523
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
OY      491 DLCEVYGAGCHCLMSRDYCGMDQGRCTISYSSSE---RSVLOSINAEPHNKEC---- 541
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      524 ANCSLEY-RSCGGCLLARDPYCAMSGSNCNVSLYQOLATRWIDIQEDASAKDLCSASS 582
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
OY      542 ---PNKP-DKAAPLOKVS LAPNSRRYLSCSPMESRHATYSWRHK---ENVESCEPHOSP 594
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      583 VVSPSFVPTEGFKRCCEGVQOPMTVNTLACPILLSLATRLNRNGARVNASASC---HVLP 639
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
OY      595 NCILFIENLTAQOXYHFC-ENOEGSYFEAOHWOLLPEDDGI 635
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      640 TGDLLL-VGTQQLEFGQCWSLEEGFQQLVASYCPREVEDGV 679
          |||::||::||::||::||::||::||::||::||::||::||::||::||:

RESULT 10
US-10-175-737-454
; Sequence 454, Application US/10175737
; Publication No. US20030013153A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430RIC50
; CURRENT APPLICATION NUMBER: US/10/175,737
; CURRENT FILING DATE: 2002-06-19
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 454
; LENGTH: 837
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-737-454

Query Match      18.7%; Score 674.5; DB 9; Length 837;
Best Local Similarity 30.5%; Pred. No. 1.4e-47;
Matches 214; Conservative 90; Mismatches 285; Indels 113; Gaps 28;

OY      12 SAPRARVGPAPRALGLPLRLRLLLL-----WAAANSAOGHLRSCGFRTFAVKGHVG 63
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      13 AAPMGAALPPRP-----PLLTLRLLLLLQLPPPTWALSPLRSLPGSEERPL----- 60
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
OY      64 QDRVDFGQTDEPTLVLFHEBGSSSVWVGGRGVY-----LDFPBECKMASVTRVINIGSTKG 118
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      61 --REFAEHISNTALLSRBOGRTLIVGAAREALFALSNLSLPGGEYELLMGADAEKKQ 118
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
OY      119 SCIDK-----RDCENYI-TLLERSEGLIACGTNARHPSCW--NLVNGTV-----VPL 163
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      119 QCSFRGKQPRQRCQYIKILLPLSGSHLFTGCTAFSPMCYTINNENTLTADEKGNVLL 178
          |||::||::||::||::||::||::||::||::||::||::||::||::||:
OY      164 GEMRGYAAPSPDENSLVLFEGDEVYSTRKQDYNNKIDPRFRIICESELITYSDTV--MON 221
          |||::||::||::||::||::||::||::||::||::||::||::||::||:

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Db 179 EDGKRCPEPDPNFKSTALVNDGLY-TGVSSFGQNDPAISRQSLRPTKSSLSLMLD 237
Qy 222 POEIKATTVHOD-----QAYDDKIYFFREDNDPKNEAPLANSRVAOLCRGOGGESSLS 277
Db 238 PAFVASAIIPESLGLQDDDKITFEFFSETGOEFEFFENTYSRIARICKGDEGGERVLO 297
Qy 278 VSKMNTFLKAMLVCSDAATNKNFNRLQDVFLLPDPSGOMRDTRVYGVSNPNVY-----S 332
Db 298 -QRMTSPFLKAQLLCRPPDDGFPFNVLQDVFTLSPSPQDWRDRLFYGVFTSQMHRGTBGS 356
-Qy 333 AVCVSLGIDIKVF-----RTSLKGYHSSLNPRPGCLRD--QOPLTEFPOVA 381
Db 357 AVCVETMKDVQRYFESGLYKEVNRETOQWYTVTHVPVTPRPGACTINSAREKINSLOLP 416
Qy 382 DR-----HPEVAQRYEPMGRLKTPLFHSKYHYQKVAHHRMQASHGETFHYLYT 430
Db 417 DRYLNFLEKDFHLMQGVNSRMILLP-----QARQYRAVHVHVPGLH-HTYDVLFLG 467
Qy 431 TDRGTHHKVVEGEDEHSAFNIMEIOPFRRAAIIQTMSLDAERKRLVYSSQWEVSOYPL 490
Db 468 TGDGRLHKAVSVGPRVHI-----IEELOIFSSGQPVQNLDDTHRGILLYAASHSGVAVQPM 523
Qy 491 DLCEVYGGGCHCCLMSRDPYCGMDGRC--ISYSSSE---RSVLQSLNPAERHKEC---- 541
Db 524 ANCSLY-RSCGCLLARDPYCAWSSGCKHVSLYQPOLATRPWIDIEGASAKDLCSASS 582
Qy 542 ---PNPKP-DKAPLQKVSILAPNSRYLSCPMESRHATYSWRHK---ENVEQSCPEGHOSP 594
Db 583 VYSPSFVPTGEKPEQVOYQOPNTVNTLACPLLSNLATRLMLNGAPVNASASC---HYLP 639
Qy 595 NCILFIEENLTAQYGHYFC-EAQBEGSYFRQAQWOLPEBDGI 635
Db 640 TGDLL--VGTQOLGEFQWLSLEGFOQLVASVCEVEEDGV 679

RESULT 11
US-10-173-706-454
; Sequence 454, Application US/10173706
; Publication No. US20030022293A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C7
; CURRENT APPLICATION NUMBER: US/10/173,706
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 454
; LENGTH: 837
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-706-454

Query Match 18.7%; Score 674.5; DB 9; Length 837;
Best Local Similarity 30.5%; Pred. No. 1.4e-47;
Matches 214; Conservative 90; Mismatches 285; Indels 113; Gaps 28;

Qy 12 SAPRAVGPAPRLGLPLRLRLLL-----WAAAASAGHLRSGRIPAVWKGHV 63
Db 13 AAPWGLPFRP-----PLLLLLLLLLLLQPPPTWALSRLSLPGLSERPPL----- 60
Qy 64 QDRVDFGQTEPHTVLHEPGSSVWVGGRKYV-----LDFPECKNMSVTRVNTIGSTKG 118

Db 61 -RFEAENHSNTALLSNDGRITLYGAREALFALLSNLSFLPGGEGYQELMGADAEKKQ 118
Qy 119 SCLDK-----RDCENYI-TLLERSEBGLACSTNARHPSCW--NLVNGTV-----VPL 163
Db 119 OCSFKGKDPQRCQWYIKILLPLSGSHLFTCCTAFAFSPMCTYINNENFTLADKGNVLL 178
Qy 164 GEMRGYAPSPDENSLYVEGDEGVSTIRKQYKNKIPFRRIIRGSELYTSDV--MGN 221
Db 179 EDGKRCPEPDPNFKSTALVNDGLY-TGVSSFGQNDPAISRQSLRPTKSSLSLMLD 237
Qy 222 POEIKATTVHOD-----QAYDDKIYFFREDNDPKNEAPLANSRVAOLCRGOGGESSLS 277
Db 238 PAFVASAIIPESLGLQDDDKITFEFFSETGOEFEFFENTYSRIARICKGDEGGERVLO 297
Qy 278 VSKMNTFLKAMLVCSDAATNKNFNRLQDVFLLPDPSGOMRDTRVYGVSNPNVY-----S 332
Db 298 -QRMTSPFLKAQLLCRPPDDGFPFNVLQDVFTLSPSPQDWRDRLFYGVFTSQMHRGTBGS 356
-Qy 333 AVCVSLGIDIKVF-----RTSLKGYHSSLNPRPGCLRD--QOPLTEFPOVA 381
Db 357 AVCVETMKDVQRYFESGLYKEVNRETOQWYTVTHVPVTPRPGACTINSAREKINSLOLP 416
Qy 382 DR-----HPEVAQRYEPMGRLKTPLFHSKYHYQKVAHHRMQASHGETFHYLYT 430
Db 417 DRYLNFLEKDFHLMQGVNSRMILLP-----QARQYRAVHVHVPGLH-HTYDVLFLG 467
Qy 431 TDRGTHHKVVEGEDEHSAFNIMEIOPFRRAAIIQTMSLDAERKRLVYSSQWEVSOYPL 490
Db 468 TGDGRLHKAVSVGPRVHI-----IEELOIFSSGQPVQNLDDTHRGILLYAASHSGVAVQPM 523
Qy 491 DLCEVYGGGCHCCLMSRDPYCGMDGRC--ISYSSSE---RSVLQSLNPAERHKEC---- 541
Db 524 ANCSLY-RSCGCLLARDPYCAWSSGCKHVSLYQPOLATRPWIDIEGASAKDLCSASS 582
Qy 542 ---PNPKP-DKAPLQKVSILAPNSRYLSCPMESRHATYSWRHK---ENVEQSCPEGHOSP 594
Db 583 VYSPSFVPTGEKPEQVOYQOPNTVNTLACPLLSNLATRLMLNGAPVNASASC---HYLP 639
Qy 595 NCILFIEENLTAQYGHYFC-EAQBEGSYFRQAQWOLPEBDGI 635
Db 640 TGDLL--VGTQOLGEFQWLSLEGFOQLVASVCEVEEDGV 679

RESULT 12
US-10-175-738-454
; Sequence 454, Application US/10175738
; Publication No. US20030022294A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C45
; CURRENT APPLICATION NUMBER: US/10/175,738
; CURRENT FILING DATE: 2002-06-19
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 454
; LENGTH: 837
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-738-454

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Query Match      18.7%: Score 674.5; DB 9; Length 837;
Best Local Similarity 30.5%: Pred. No. 1.4e-47;
Matches 214; Conservative 90; Mismatches 285; Indels 113; Gaps 28;

QY 12 SAPARVPGPARGLPLRLRLLL-----WAAASAQGLRSGPRIFAAWKHVG 63
DB 13 AAPGALPPRP-----PLLLLLLLLLLQPPPTWALSRLSLPLGSEERFL-----60
QY 64 QDRVDFGQTEPHYVLFHEPGSSSYWVGGRKVV-----LFDPEGKNASVTVNIGSTKG 118
DB 61 --REAEHISNYTALLLSRDRGLYVGAREALFALSSNLSTPLPGGEYQELMGADAEKKQ 118
QY 119 SCLDK-----RDCENYI-TLLERSEGLACGTNARHPSCW--NLVNGTV-----VPL 163
DB 119 QCSFKGDPQDCQNYIKILPLSGSHLFTCGTAAFSPMCTYIMNENFTLARDEKGNVLL 178
QY 164 GEMGYAPFSPDENSLVLFEGDEYVSTIRKQYNGKIPRRFRIGESSELYSDTV--MON 221
DB 179 EDGKRCPEPDPNFKSTALVVDGELY-TGYVSSFGNDPAISRQSLRPTKTSSLNMLQD 237
QY 222 POFKATIVHOD-----QAYDKIYFFREDNPKNPEAPLVNSVAQLCRDQGESLS 277
DB 238 PAFVASAVIPESLSLOGDDDKIYFFSETGQEFEPENTIVSRILARICKDGEGERVLQ 297
QY 278 VSKNNTFLKAMLVCSDAATNKNENRLQDVFLLPPSGQMDRTVYGVFSNPMNY-----S 332
DB 298 -QRTSFLKAOGLCSRPDDGPFENVLDVFTLSPSPQDMRRTLYGVFTSQMHGTEGS 356
QY 333 AVCYFSLGDDIKVF-----RTSSLKGYHSSLPNRPCKLPD--QOPIPETROVA 381
DB 357 AVCYFTMKDQVRVFSGLKEYNRETQOQMYTHVPTPRPACITTSAREKKINSIQLP 416
QY 382 DR-----HPEVAQRYEPMPGLKTPPLFHSKYHYOKAVAHMQASHGETHVLVLT 430
DB 417 DRYLNFLLKHFMLMGQVRSRMLLQP-----QARYQVAVHVRPGLH-HTVDVLELG 467
QY 431 TDRCTIKHVEPGEQHSFANIMEIQPFRAAALQTMISDAERKRLYVSSQEVQVPL 490
DB 468 TGDGRLHKAVSVGRVHI-----IELQIFSSGQVQVQMLLDTHRGLLYAASHSGVQVPM 523
QY 491 DLCEVYGGGCHGCLMSRDPYCGMDQGRG--ISYSS-----RSVLQSIINPAEPHKEC-----541
DB 524 ANCSLY--RSCGDCLLARDPYCAMSGSSCKHVSILYQPLATRPWIODIEGASAKDLCSASS 582
QY 542 ---PNKRP-DKAPLOKVS LAPNSRYVLSCPMESRHATYSWRHK---BNVEDSCPEGHQSP 594
DB 583 VVSPSEVPTEGKPEQOYQFOBPNTVNTLACPLSLMLATRLMRNGAPYNASASC---HYLP 639
QY 595 NCILFIENLTAQGYGHC--EAQGSYFREAOHMQLLPEDGI 635
DB 640 TGDLL--VGTQQLGFEQWCSLEBGFQOLVASYCPEVEEDGV 679

RESULT 13
US-10-175-752-454
; Sequence 454, Application US/10175752
; Publication No. US20030022296A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddard, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C60
; CURRENT APPLICATION NUMBER: US/10/175.752

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CURRENT FILING DATE: 2002-06-19
; Prior Application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 454
; LENGTH: 837
; TYPE: PR
; ORGANISM: Homo Sapien
US-10-175-752-454

Query Match      18.7%: Score 674.5; DB 9; Length 837;
Best Local Similarity 30.5%: Pred. No. 1.4e-47;
Matches 214; Conservative 90; Mismatches 285; Indels 113; Gaps 28;

QY 12 SAPARVPGPARGLPLRLRLLL-----WAAASAQGLRSGPRIFAAWKHVG 63
DB 13 AAPGALPPRP-----PLLLLLLLLLLQPPPTWALSRLSLPLGSEERFL-----60
QY 64 QDRVDFGQTEPHYVLFHEPGSSSYWVGGRKVV-----LFDPEGKNASVTVNIGSTKG 118
DB 61 --REAEHISNYTALLLSRDRGLYVGAREALFALSSNLSTPLPGGEYQELMGADAEKKQ 118
QY 119 SCLDK-----RDCENYI-TLLERSEGLACGTNARHPSCW--NLVNGTV-----VPL 163
DB 119 QCSFKGDPQDCQNYIKILPLSGSHLFTCGTAAFSPMCTYIMNENFTLARDEKGNVLL 178
QY 164 GEMGYAPFSPDENSLVLFEGDEYVSTIRKQYNGKIPRRFRIGESSELYSDTV--MON 221
DB 179 EDGKRCPEPDPNFKSTALVVDGELY-TGYVSSFGNDPAISRQSLRPTKTSSLNMLQD 237
QY 222 POFKATIVHOD-----QAYDKIYFFREDNPKNPEAPLVNSVAQLCRDQGESLS 277
DB 238 PAFVASAVIPESLSLOGDDDKIYFFSETGQEFEPENTIVSRILARICKDGEGERVLQ 297
QY 278 VSKNNTFLKAMLVCSDAATNKNENRLQDVFLLPPSGQMDRTVYGVFSNPMNY-----S 332
DB 298 -QRTSFLKAOGLCSRPDDGPFENVLDVFTLSPSPQDMRRTLYGVFTSQMHGTEGS 356
QY 333 AVCYFSLGDDIKVF-----RTSSLKGYHSSLPNRPCKLPD--QOPIPETROVA 381
DB 357 AVCYFTMKDQVRVFSGLKEYNRETQOQMYTHVPTPRPACITTSAREKKINSIQLP 416
QY 382 DR-----HPEVAQRYEPMPGLKTPPLFHSKYHYOKAVAHMQASHGETHVLVLT 430
DB 417 DRYLNFLLKHFMLMGQVRSRMLLQP-----QARYQVAVHVRPGLH-HTVDVLELG 467
QY 431 TDRCTIKHVEPGEQHSFANIMEIQPFRAAALQTMISDAERKRLYVSSQEVQVPL 490
DB 468 TGDGRLHKAVSVGRVHI-----IELQIFSSGQVQVQMLLDTHRGLLYAASHSGVQVPM 523
QY 491 DLCEVYGGGCHGCLMSRDPYCGMDQGRG--ISYSS-----RSVLQSIINPAEPHKEC-----541
DB 524 ANCSLY--RSCGDCLLARDPYCAMSGSSCKHVSILYQPLATRPWIODIEGASAKDLCSASS 582
QY 542 ---PNKRP-DKAPLOKVS LAPNSRYVLSCPMESRHATYSWRHK---BNVEDSCPEGHQSP 594
DB 583 VVSPSEVPTEGKPEQOYQFOBPNTVNTLACPLSLMLATRLMRNGAPYNASASC---HYLP 639
QY 595 NCILFIENLTAQGYGHC--EAQGSYFREAOHMQLLPEDGI 635
DB 640 TGDLL--VGTQQLGFEQWCSLEBGFQOLVASYCPEVEEDGV 679

RESULT 14
US-10-176-482-454
; Sequence 454, Application US/10176482
; Publication No. US20030022296A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddard, Paul J.
; APPLICANT: Gurney, Austin L.

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/ APPLICANT: Pan,James
/ APPLICANT: Smith,Victoria
/ APPLICANT: Matanabe,Colin K.
/ APPLICANT: Wood,William I.
/ APPLICANT: Zhang,Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ FILE REFERENCE: P3430RIC70
/ CURRENT APPLICATION NUMBER: US/10/176,482
/ CURRENT FILING DATE: 2002-06-20
/ Prior Application removed - See file wrapper or Palm
/ NUMBER OF SEQ ID NOS: 612
/ SEQ ID NO 454
/ LENGTH: 837
/ TYPE: PRT
/ ORGANISM: Homo Sapien
/ -10-176-482-454

Query Match      18.7%; Score 674.5; DB 9; Length 837;
Best Local Similarity 30.5%; Pred. No. 1.4e-47;
Matches 214; Conservative 90; Mismatches 285; Indels 113; Gaps 28;

12 SAPRAVPGPPARGLPLRLRLLL-----MAAASAOGLHSGPRIFAVMGHYG 63
13 AAPWGAALPPRP-----PLLLLLLLLLLOPPPTMALSPRISLPJGSEERPL----- 60
64 QDRVDFGQTEPHTVLFHEPGSSVWVGGRKY-----LFDPEGKNASRYVNIYSTKG 118
61 --REFEAIHNTALLSRDGRILYGARALFALSSNLSFLDGEGYQELMGDAEKKO 118
119 SCIDK-----RDCENYI-TLLERSSGLACGTNAHPSCW--NLYNGTV-----VPL 163
119 QCSFKKDPQDCQNTIKILPLSGSHLFCGTAAFSPMCTYIMNEFTLARDEKGNVLL 178
164 GEMRGYAPSPDENSIVLEGEDEVYSTIRKQENKIPRRRIKRGSELYTSDTV--MON 221
179 EDKGRCPDPNPKSTALVVDGELY-TGYVSSFQGNDAIPASRSQSLRPTKTESLWMLQD 237
222 POFIKATIVHOD---QAYDDKIYFFREDNPKNEAPLNVSRVAQLCGDGGESSLS 277
238 PAFVASAIYIPESLGSLOGDDDKYFFFSSETGGEFFEFENTYRIARICKGDEGGERVLQ 297
278 VSKWNTFLKAMLYCSDAATKNKNRLQDVFLPDPGQMDTRVYGVFSNPMNY-----S 332
298 -QRWTSFLKAQLLCSRPDGGFPFNVLQDVFTLSPSQDMDTLFYGVTFSQWHRGTGGS 356
333 AWCYVSLGIDIKYF-----RTSSLKGYHSSLNPRRGKLPD--QOPIETETFOYA 381
357 AWCVFPMKDVQRFVSGLYKEVNETQWYTVTHPRVPTPRGACITNSARERKINSSLOLP 416
382 DR-----HPEVAQRVERPMGLKTPRLFHSKYHYOKVAVHRMQASHGETFHVLYLT 430
417 DRYLNLKLDHFLMDGOVRSMLLQD-----QARYQAVAVHVRPGLH-HTYDVLFLG 467
431 TDGRTIHKVYEPDEQHSFAFNIMETOPRRRAAIQTMISDABRRKLYVSSQMEVSOVPL 490
468 TGDGRHKAIVSGVRVHI-----IEELQIFSSGQPVONLLDTHRGLLYAASHSGVQVPM 523
491 DLCEVYGGCGHCLMSRDPYCGMDQGR--ISITYSE---RSVLOSINPAEPKREC----- 541
524 ANCSLY-RSCGDCILARDPFCAMSGSSCKHVSILYQOLATRPITQIDEGASADLCSASS 582
542 ---PNKRP-DKAPLQVSLAPNSRYVLSCPMESRHAITYSWRHK---ENVEQSCPEGHQSP 594
583 VVSPSPVTPGKPCFOYQOPNTVNTLACPLSLNLTATRLMLRGAIVYMASASC---HVL 639
595 NCLIFTEMLTAQOYGHYFC-EAOGESYFREAQHMOLLPEDEGI 635
640 TGDLLL-VGTQOLGEGFCWSLEEGFOQLVASYCPREVDEGV 679

RESULT 15
US-10-176-757-454
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/ Sequence 454, Application US/10176757
/ Publication No. US20030022297A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker,Kevin P.
/ APPLICANT: Chen,Jian
/ APPLICANT: Desnoyers,Luc
/ APPLICANT: Goddard,Audrey
/ APPLICANT: Godowski,Paul J.
/ APPLICANT: Gurney,Austin L.
/ APPLICANT: Pan,James
/ APPLICANT: Smith,Victoria
/ APPLICANT: Matanabe,Colin K.
/ APPLICANT: Wood,William I.
/ APPLICANT: Zhang,Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ FILE REFERENCE: P3430RIC86
/ CURRENT APPLICATION NUMBER: US/10/176,757
/ CURRENT FILING DATE: 2002-06-20
/ Prior Application removed - See file wrapper or Palm
/ NUMBER OF SEQ ID NOS: 612
/ SEQ ID NO 454
/ LENGTH: 837
/ TYPE: PRT
/ ORGANISM: Homo Sapien
/ -10-176-757-454

Query Match      18.7%; Score 674.5; DB 9; Length 837;
Best Local Similarity 30.5%; Pred. No. 1.4e-47;
Matches 214; Conservative 90; Mismatches 285; Indels 113; Gaps 28;

12 SAPRAVPGPPARGLPLRLRLLL-----MAAASAOGLHSGPRIFAVMGHYG 63
13 AAPWGAALPPRP-----PLLLLLLLLLLOPPPTMALSPRISLPJGSEERPL----- 60
64 QDRVDFGQTEPHTVLFHEPGSSVWVGGRKY-----LFDPEGKNASRYVNIYSTKG 118
61 --REFEAIHNTALLSRDGRILYGARALFALSSNLSFLDGEGYQELMGDAEKKO 118
119 SCIDK-----RDCENYI-TLLERSSGLACGTNAHPSCW--NLYNGTV-----VPL 163
119 QCSFKKDPQDCQNTIKILPLSGSHLFCGTAAFSPMCTYIMNEFTLARDEKGNVLL 178
164 GEMRGYAPSPDENSIVLEGEDEVYSTIRKQENKIPRRRIKRGSELYTSDTV--MON 221
179 EDKGRCPDPNPKSTALVVDGELY-TGYVSSFQGNDAIPASRSQSLRPTKTESLWMLQD 237
222 POFIKATIVHOD---QAYDDKIYFFREDNPKNEAPLNVSRVAQLCGDGGESSLS 277
238 PAFVASAIYIPESLGSLOGDDDKYFFFSSETGGEFFEFENTYRIARICKGDEGGERVLQ 297
278 VSKWNTFLKAMLYCSDAATKNKNRLQDVFLPDPGQMDTRVYGVFSNPMNY-----S 332
298 -QRWTSFLKAQLLCSRPDGGFPFNVLQDVFTLSPSQDMDTLFYGVTFSQWHRGTGGS 356
333 AWCYVSLGIDIKYF-----RTSSLKGYHSSLNPRRGKLPD--QOPIETETFOYA 381
357 AWCVFPMKDVQRFVSGLYKEVNETQWYTVTHPRVPTPRGACITNSARERKINSSLOLP 416
382 DR-----HPEVAQRVERPMGLKTPRLFHSKYHYOKVAVHRMQASHGETFHVLYLT 430
417 DRYLNLKLDHFLMDGOVRSMLLQD-----QARYQAVAVHVRPGLH-HTYDVLFLG 467
431 TDGRTIHKVYEPDEQHSFAFNIMETOPRRRAAIQTMISDABRRKLYVSSQMEVSOVPL 490
468 TGDGRHKAIVSGVRVHI-----IEELQIFSSGQPVONLLDTHRGLLYAASHSGVQVPM 523
491 DLCEVYGGCGHCLMSRDPYCGMDQGR--ISITYSE---RSVLOSINPAEPKREC----- 541
524 ANCSLY-RSCGDCILARDPFCAMSGSSCKHVSILYQOLATRPITQIDEGASADLCSASS 582
542 ---PNKRP-DKAPLQVSLAPNSRYVLSCPMESRHAITYSWRHK---ENVEQSCPEGHQSP 594
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Fri Mar 14 11:16:51 2003

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Page 10

D_b 563 VVSPSEFVTGKPEEQYQFOQENTNITLACPLLSLARLRMLRKNCAPIYNASASC ---HYLP 639
Q_y 595 NCILFIENLTQAQYGHYFC-EAQSGSYFRQAQHQQLLPDEGI 635
 I : : I I : : I I I : : I I I:
D_b 640 TGDLLL--VFQQLGEFGCWSLEGCFQIIVASYCPREVEDGV 679

Search completed: March 14, 2003, 09:34:40
Job time : 18.4509 secs